

## LIST OF MITIGATION MEASURES

Mitigation measures have been defined to avoid or minimize the environmental impacts of the selected alternative. These mitigation measures are not subject to change without prior written approval from the Federal Highway Administration. Additional information about the mitigation measures can be found in the Environmental Assessment for the project.

### Design Responsibilities

- During final design, the project plans will be reviewed to verify the extent of encroachment into waters of the United States, and permits required under Sections 401 and 404 of the Clean Water Act will be acquired by the Arizona Department of Transportation.
- Because one or more acres of land will be disturbed, an Arizona Pollutant Discharge Elimination System permit will be required. The Arizona Department of Transportation Roadside Development Section will determine who will prepare the Storm Water Pollution Prevention Plan.
- During final design, the Arizona Department of Transportation will prepare a revegetation plan. This plan will include salvaging and transplanting saguaros in the area of disturbance.
- Protected native plants within the construction limits will be impacted by the selected alternative; therefore, the Arizona Department of Transportation Roadside Development Section will notify the Arizona Department of Agriculture at least 60 days prior to the start of construction to afford commercial salvagers the opportunity to remove and salvage any plants not included in the project's revegetation plan.
- During final design, individual construction segments of the project area will be surveyed by the Arizona Department of Transportation's Natural Resources Section to determine if invasive species are present within the segment. If invasive species are found within a given construction segment, these species will be treated prior to construction and any necessary treatments will continue following construction completion.
- All disturbed soils that will not be landscaped or otherwise permanently stabilized by construction will be seeded using species native to the project vicinity.
- Retaining walls and noise barriers will be constructed of materials that complement the surrounding landscape's colors and textures. In addition, retaining walls associated with any rock cuts will be compatible with the rugged textures, colors, and lines of the surroundings and with those of the new median retaining walls.
- The dual New River bridges will be painted to blend with the desert wash nature of their surroundings.
- Wherever adequate space is available, landscaping will be provided along I-17 in order to minimize visual impacts.
- Initial Site Assessments will be obtained during final design if right-of-way is required from, or excavation is anticipated on or adjacent to, the properties identified with potential hazardous material contamination. If necessary, remedial measures will be implemented based upon the Initial Site Assessment results.
- During final design, the Arizona Department of Transportation will conduct assessments to determine whether the existing load-bearing structures to be modified or removed contain asbestos and whether heavy metals (e.g., lead-based paint) are present on those structures. If these hazardous materials are found as a result of the assessments, the Arizona Department of Transportation will prepare a plan detailing the proper procedures for demolition or modification of those structures and disposal of the asbestos or heavy-metal materials. In addition, the Arizona Department of Transportation will obtain any permits required for the demolition of the structures or disposal of asbestos or heavy-metal materials.
- The project will be designed to avoid impacts to cultural resources sites within the project area to the extent possible. If these sites cannot be avoided, a program of testing and/or data recovery will be implemented during final design to mitigate the impact of project construction on cultural resources sites.

### **Phoenix Construction District Responsibilities**

- In accordance with Arizona Pollutant Discharge Elimination System requirements, the Phoenix Construction District will submit the Notice of Intent and the Notice of Termination to the Arizona Department of Environmental Quality.
- The Phoenix Construction District will provide a construction notice to adjacent residents and businesses at least two weeks prior to construction.

### **Contractor Responsibilities**

- All discarded waste (including but not limited to human waste, trash, debris, oil drums, fuel, ashes, equipment, concrete, and chemicals) generated during construction activities shall be removed and/or disposed of according to federal and state regulations.
- In accordance with Arizona Pollutant Discharge Elimination System requirements, the contractor shall submit the Notice of Intent and the Notice of Termination to the Arizona Department of Environmental Quality.
- If Sonoran desert tortoises are encountered during construction, personnel shall comply with the Arizona Game and Fish Department's Guidelines for Handling Sonoran Desert Tortoises found in Appendix C of the Environmental Assessment.
- All disturbed soils that shall not be landscaped or otherwise permanently stabilized by construction shall be seeded using species native to the project vicinity.
- All earth-moving and hauling equipment shall be washed at the contractor's storage facility prior to arriving on site to prevent the introduction of invasive species seed.
- If invasive species are found within a given construction segment, the contractor shall be required to wash all earth-moving and hauling equipment prior to leaving the construction site in order to prevent the spread of invasive species seed to uncontaminated areas. The contractor shall notify the Arizona Department of Transportation Natural Resources Section of the location of any proposed wash sites prior to their operation.
- Construction of the project shall comply with Maricopa County Air Quality Rule 310 – Fugitive Dust Sources and any required air quality permits.